RocketPod™ Update

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Ecliptic Products

- **RocketCam™**: Get the picture.

- **RocketPod™**: Get the ride.
Ecliptic Products and Markets

Space Imagery & Data
- RocketCam™ DVS
- Controller Subsystems

Space Infrastructure & Logistics
- RocketCam™ AVS
- Small Payloads
- RocketPod™

Humans in Space
- RocketCam™ content supporting human projects


Proven technologies, integration concepts, interfaces and performance

Established contracting processes for a broad range of platforms
RocketCam Space Heritage

• Launched on 49 projects since 1997
  – 32 rockets to orbit (66 cameras)
  – 15 suborbital launches (33)
  – 2 spacecraft (6)
• All relatively simple integrations
• All relatively low cost
• All successful
• Many more to come
RocketCam to RocketPod
(Delta II example)

Patented in U.S. and abroad
RocketPod Internal View

Sep velocities:
- 2.6 m/s for 0.6 kg payload
- 2.0 m/s for 1.0 kg
- 1.4 m/s for 2.0 kg
What Makes RocketPod™ Attractive?

Traditional Secondary Payload Model

- Unique payload design
- Single payload per launch
- Mission-specific interfaces
- Mission-specific analyses
- Mission-specific trajectory
- Mission-specific safety requirements
- Unique launch-site processing

RocketPod™ Secondary Payload Model

- Standard payload design
- Multiple payloads per launch
- Standard interfaces
- Enveloping analyses
- Standard deployment options
- Standard safety requirements
- Standard launch-site processing

Standardization enables lower recurring launch cost and a low-cost secondary launch program; can be key component of Responsive Space for kg-class systems
Current Activities

• During 2004-2006, assessed integration issues for most U.S. ELVs, plus some spacecraft
  – Delta II, Delta IV, Atlas 5, Minotaur, Taurus, Falcon 1
• Two suborbital launches this summer on GSC P-9A/B
  – Fairing fit-check on P-7 last fall
  – Follow-on launch 1Q 2008 if 2007 launches are successful
• Launch option on Falcon-1 launch late this year
  – Malaysian launch, via SAT
• Working on DARPA STTR with Cal Poly SLO to identify and work orbital launch opportunities
  – Focusing on mid-2008 and beyond
• Actively discussing RocketPod applications for other rocket and spacecraft applications
  – Commercial, NASA, defense
• Ecliptic-Ames MOU approved today